

Terms of Reference for Upper Thames River Source Protection Area

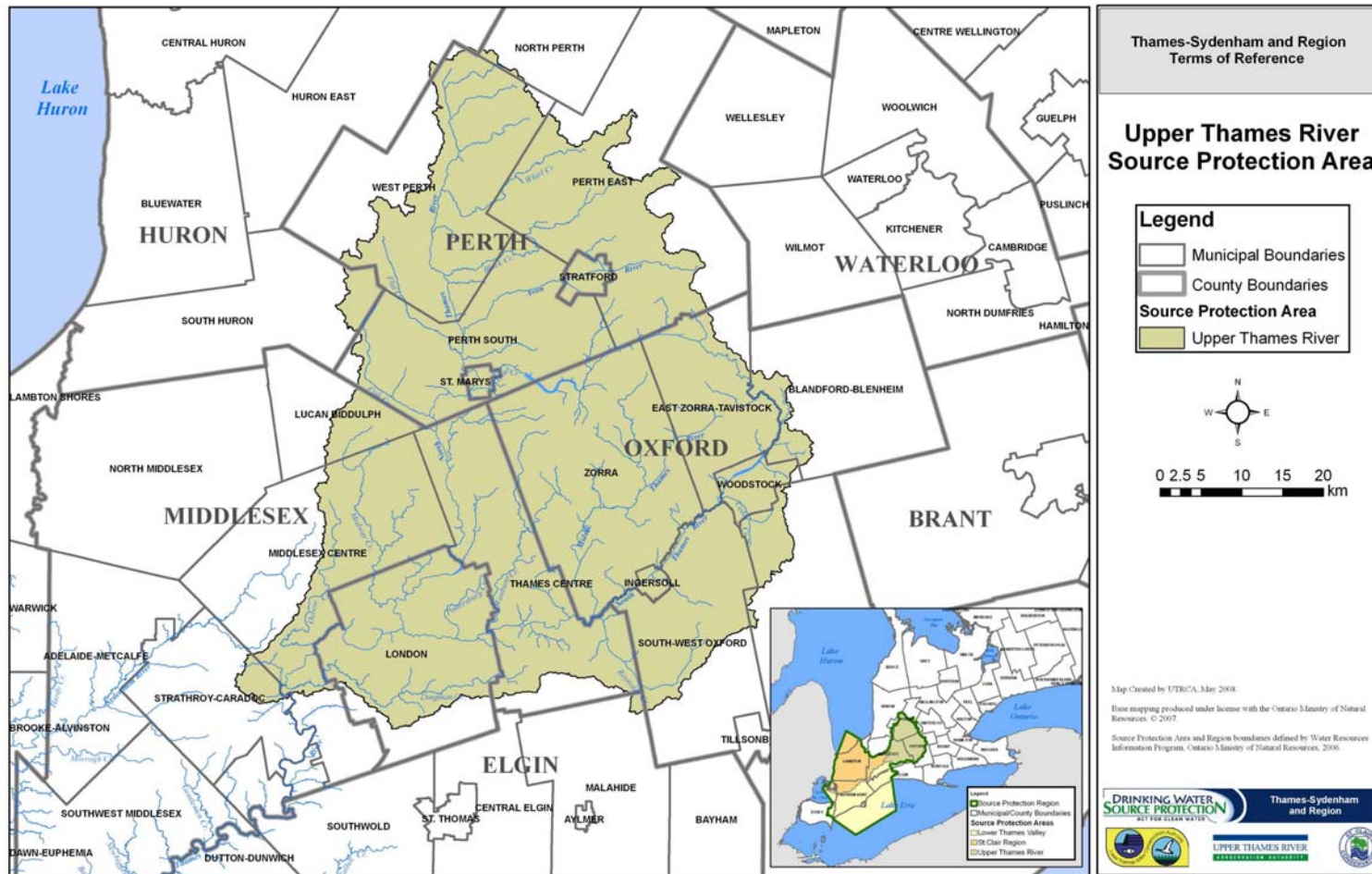
Thames-Sydenham and Region Source Protection Committee

2009-Feb-09

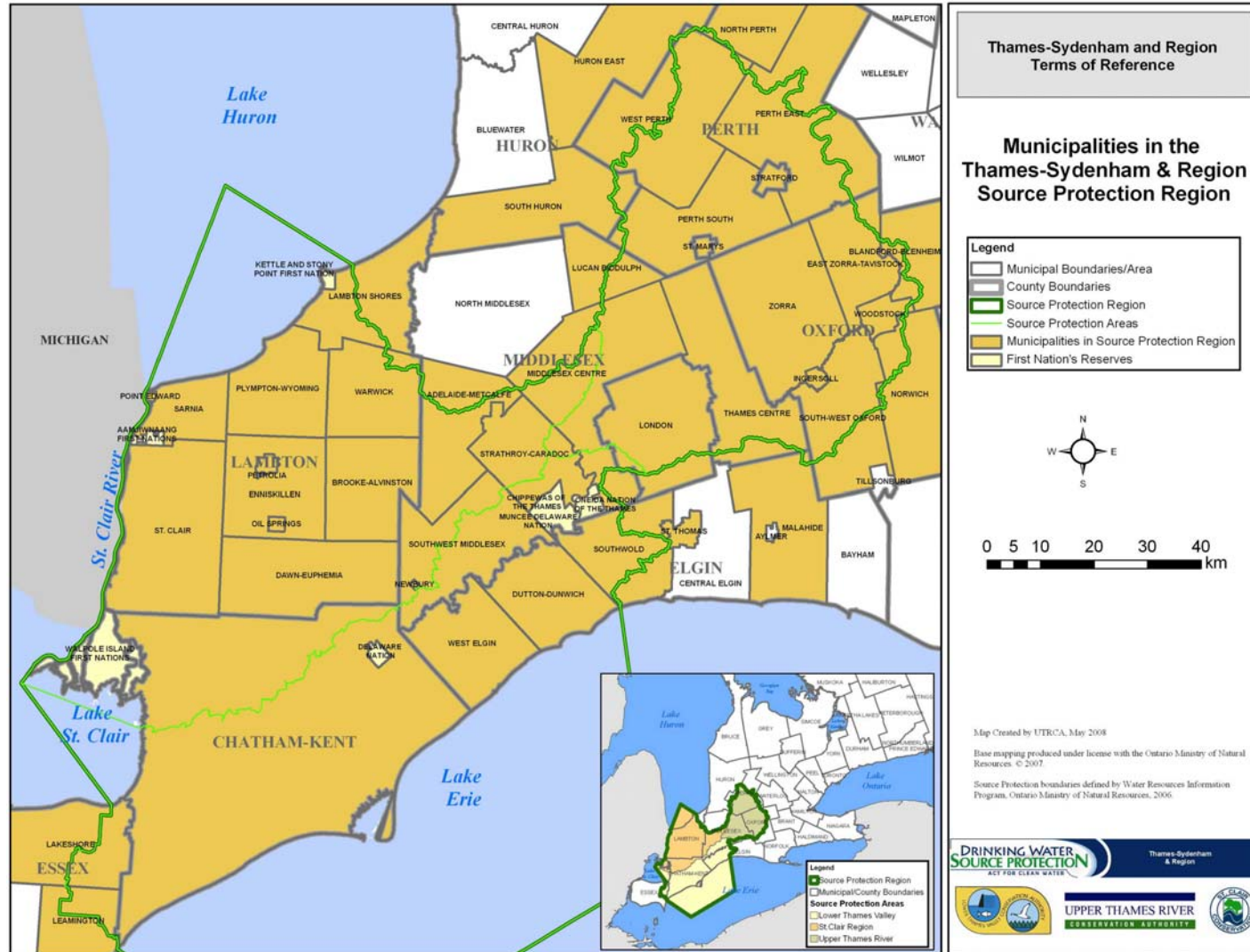
Table of Contents

Map of Source Protection Area	3
Map of Source Protection Region	4
List of Municipalities Located in the Upper Thames River Source Protection Area	5
List of Municipal Residential Drinking Water System(s)	6
List of Drinking Water System(s) Included by Municipal Council Resolution	8
(Not Municipal Residential Drinking Water Systems)	8
List of Drinking Water Systems Serving Reserve(s)	8
(Not Municipal Residential Drinking Water Systems)	8
List of Fully or Partially Exempted Municipal Residential Drinking Water System(s)	8
List of Drinking Water System(s) Included by Minister of the Environment	8
(Not Municipal Residential Drinking Water Systems)	8
List of Matter(s) that Affect Other Source Protection Committees	8
The Work Plan to Complete the Assessment Report	11
The Work Plan to Complete the Source Protection Plan	15
The Date the Source Protection Plan is to be Submitted to the Minister for Approval by the Upper Thames River Conservation Authority:	16
Council Resolution(s) to Include Drinking Water System(s)	17
Council Resolution(s) to Exempt Municipal Residential Drinking Water System(s)	17
Detailed Information on Municipal Residential Drinking Water System(s)	18
Detailed Information on Drinking Water System(s) Included by Municipal Council Resolution	25
(Not Municipal Residential Drinking Water Systems)	25
Detailed Information on Drinking Water System(s) Included by Bands Serving Reserve(s)	25
(Not Municipal Residential Drinking Water Systems)	25
Detailed Information on Fully or Partially Exempted Municipal Residential Drinking Water System(s)	25
Detailed Information on Drinking Water System(s) Included by the Minister of the Environment	25
(Not Municipal Residential Drinking Water Systems)	25
Detailed Work Plan to Complete the Assessment Report	26
Detailed Work Plan to Complete the Source Protection Plan	44
Summary of Financial Statistics	50
Estimated Costs for Tasks by Fiscal Year	52
Process Checklist	57
Appendix: Full Task Descriptions	58

Map of Source Protection Area



Map of Source Protection Region



List of Municipalities Located in the Upper Thames River Source Protection Area

Legal Name of Municipality
Oxford, County of
Huron, County of
London, City of
Middlesex, County of
Elgin, County of
Perth, County of
St. Marys, Town of
Stratford, City of
Malahide, Township of
Huron East, Municipality of
South Huron, Municipality of
Lucan-Biddulph, Municipality of
Middlesex Centre, Municipality of
Strathroy-Caradoc, Municipality of
Thames Centre, Municipality of
Blandford-Blenheim, Township of
East Zorra-Tavistock, Township of
Ingersoll, Town of
Norwich, Township of
South-West Oxford, Township of
Woodstock, City of
Zorra, Township of
North Perth, Municipality of
Perth East, Township of
Perth South, Township of
West Perth, Municipality of

List of Municipal Residential Drinking Water System(s)

Type of System (existing or planned)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Type of Source Water (surface, ground, both)
Existing	220000674	Beachville-Loweville Well Supply	County of Oxford	County of Oxford	Groundwater
Existing	220005492	Birr Well Supply	Township of Middlesex Centre	Ontario Clean Water Agency	Groundwater
Existing	220002146	Dorchester Well Supply	Municipality of Thames Centre	Municipality of Thames Centre	Surface and Groundwater
Existing	220000665	Embros Well Supply	County of Oxford	County of Oxford	Groundwater
Existing	220006124	Hickson King Subdivision Well Supply	County of Oxford	County of Oxford	Groundwater
Existing	220000692	Ingersoll Well Supply	County of Oxford	County of Oxford	Groundwater
Existing	260046995	Innerkip Well Supply	County of Oxford	County of Oxford	Groundwater
Existing	210003994	Kilworth Heights Subdivision Well Supply	Township of Middlesex Centre	Ontario Clean Water Agency	Surface and Groundwater
Existing	220007533	Lakeside Well Supply	County of Oxford	County of Oxford	Groundwater
Existing	260004917	London Water Supply	City of London	The Corporation of the City of London	Surface and Groundwater
Existing	260002915	Melrose Well Supply	Township of Middlesex Centre	Ontario Clean Water Agency	Groundwater
Existing	210000577	Mitchell Well Supply	Municipality of West Perth	West Perth Power Inc.	Groundwater
Existing	210003985	Mount Brydges Well Supply	Township of Strathroy-Caradoc	Township of Strathroy-Caradoc	Groundwater
Existing	220000629	Mount Elgin Well Supply	County of Oxford	County of Oxford	Groundwater
Existing	260003084	Sebringville Well Supply	Township of Perth South	Ontario Clean Water Agency	Groundwater

Existing	260002317	Shakespeare Well Supply	Township of Perth East	American Water Canada Corp.	Groundwater
Existing	220000521	St. Marys Well Supply	Town of St. Marys	Town of St. Marys	Surface and Groundwater
Existing	220003948	St. Pauls Well Supply	Township of Perth South	Township of Perth South	Groundwater
Existing	220000530	Stratford Well Supply	City of Stratford	City of Stratford	Groundwater
Existing	220000647	Tavistock Well Supply	County of Oxford	County of Oxford	Groundwater
Existing	220000610	Thamesford WS	County of Oxford	County of Oxford	Surface and Groundwater
Existing	220006115	Thorndale Well Supply	Municipality of Thames Centre	Municipality of Thames Centre	Groundwater
Existing	220000709	Woodstock Well Supply	County of Oxford	County of Oxford	Surface and Groundwater
Planned	220000629	Mount Elgin Well Supply - New Well	County of Oxford	County of Oxford	Groundwater
Planned	220002146	New Dorchester Planned Well	Municipality of Thames Centre	Municipality of Thames Centre	Surface and Groundwater
Planned	220000709	Woodstock Well Supply - New Well	County of Oxford	County of Oxford	Groundwater

List of Drinking Water System(s) Included by Municipal Council Resolution (Not Municipal Residential Drinking Water Systems)

Type of System (existing or planned)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Type of Source Water (surface, ground, both)	Title of Council Resolution
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No systems included.

List of Drinking Water Systems Serving Reserve(s) (Not Municipal Residential Drinking Water Systems)

Type of System (existing or planned)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Type of Source Water (surface, ground, both)	Regulation Reference
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No systems included.

List of Fully or Partially Exempted Municipal Residential Drinking Water System(s)

Type of System (existing or planned)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Type of Source Water (surface, ground, both)	Title of Council Resolution
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No systems exempted.

List of Drinking Water System(s) Included by Minister of the Environment (Not Municipal Residential Drinking Water Systems)

Type of System (existing or planned)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Type of Source Water (surface, ground, both)
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No systems included.

List of Matter(s) that Affect Other Source Protection Committees

Source Protection Committees Affected	Source Protection Area	Description of Matter
Ausable Bayfield-Maitland Valley SPC	Ausable Bayfield-Maitland Valley Source Protection Region	The Lake Huron Primary Water Supply System (LHPWSS) services the City of London and parts of the Municipalities of Middlesex Centre, Lucan-Biddulph and Strathroy-Caradoc in the Upper Thames River SPA of the Thames-Sydenham and Region SPR. The Water Treatment Plant is located north of the community of Grand Bend on Lake Huron, in the Ausable Bayfield-Maitland Valley Source Protection Region. Although the work will be undertaken by the Ausable Bayfield-Maitland Valley (ABMV) SPR consultation with the Thames-Sydenham and Region SPR and the supplied municipalities within the Thames-Sydenham and Region SPR needs to be undertaken in developing the Assessment Report and Source Protection Plan as they relate to this supply.
Lake Erie SPC	Lake Erie Source Protection Region	The Elgin Area Primary Water Supply System (EAPWSS) services communities in the Upper Thames River SPA of the Thames-Sydenham and Region SPR including the City of London. The Water Treatment Plant is located east of the village of Port Stanley in Central Elgin on Lake Erie, in the Lake Erie Source Protection Region. Although the work will be undertaken by the Lake Erie SP Region, consultation with the Thames-Sydenham and Region SPR and the supplied municipalities within the Thames-Sydenham and Region SPR needs to be undertaken in developing the Assessment Report and Source Protection Plan as they relate to this supply.
Lake Erie SPC	Lake Erie Source Protection Region	There are many municipalities in Perth, Oxford, Middlesex and Elgin Counties that straddle the watershed divide between the Upper Thames River SPA of the Thames-Sydenham and Region SPR and as the Lake Erie SPR. A coordinated approach to technical studies and source protection planning policies must be considered. Consultation on consistent policies within these shared municipalities needs to be considered.
Ausable Bayfield-Maitland Valley SPC	Ausable Bayfield-Maitland Valley Source Protection Region	A number of municipalities are shared with the Ausable Bayfield-Maitland Valley Source Protection Region: the Municipality of West Perth, the Township of Perth South, the Township of Lucan Biddulph, the Municipality of Middlesex Centre, the Municipality of North Perth, Municipality of South Huron, and Municipality of Huron East. A coordinated approach to the development of WHPA and IPZ should be undertaken. Consultation on consistent policies within these shared municipalities needs to be considered.
Ausable Bayfield-Maitland Valley SPC	Ausable Bayfield-Maitland Valley Source Protection Region	The Minister may direct a Source Protection Authority to prepare and submit a report on any matter relating to the use of the Great Lakes as a source of drinking water or to assist

		another Source Protection Authority in preparing a report. In addition, the Minister may establish targets relating to the use of the Great Lakes as a source of drinking water for one or more source protection areas that contribute water to the Great Lakes. There will be a need to consult with the Ausable Bayfield-Maitland Valley (ABMV) SPR on Great Lakes issues.
Lake Erie SPC	Lake Erie Source Protection Region	A number of Well Head Protection Areas originate in the Lake Erie SPR and extend into the Thames-Sydenham and Region SPR including wells systems of Norwich, Dereham Centre and Belmont. Consultation with the Thames-Sydenham and Region SPC and affected municipalities within the region will be necessary.
Lake Erie SPC	Lake Erie Source Protection Region	Edge matching of map products, of the Assessment Report and SP Plan, such as Significant Groundwater Recharge Areas and Highly Vulnerable Aquifers need to be undertaken. Consultation on the methods employed and products produced will be necessary.
Ausable Bayfield-Maitland Valley SPC	Ausable Bayfield-Maitland Valley Source Protection Region	Edge matching of map products, of the Assessment Report and SP Plan, such as Significant Groundwater Recharge Areas and Highly Vulnerable Aquifers need to be undertaken. Consultation on the methods employed and products produced will be necessary.
Lake Erie SPC	Lake Erie Source Protection Region	Water Budget work needs to consider groundwater flow into and out of each region. Consultation with neighbouring regions will be required to ensure that groundwater flow between regions is consistently represented in the water budget products of each region.
Ausable Bayfield-Maitland Valley SPC	Ausable Bayfield-Maitland Valley Source Protection Region	Water Budget work needs to consider groundwater flow into and out of each region. Consultation with neighbouring regions will be required to ensure that groundwater flow between regions is consistently represented in the water budget products of each region.
Lake Erie SPC	Lake Erie Source Protection Region	Princeton water is currently supplied from the City of Woodstock in Oxford County. Consultation on policies developed related to these systems is required.

The Work Plan to Complete the Assessment Report

By Source Protection Area/ Drinking Water System Name	Task	Assigned Lead(s)	Estimated Completion Date	Estimated Cost
Upper Thames River Source Protection Area	Coordinating and supporting projects for the assessment report	Upper Thames River Conservation Authority	2010-Jan-31	\$4,380,098
Upper Thames River Source Protection Area	Undertaking communications initiatives for the assessment report	Upper Thames River Conservation Authority	2010-Jan-31	\$352,750
Upper Thames River Source Protection Area	Information management for the assessment report preparation	Upper Thames River Conservation Authority	2010-Jan-31	\$405,521
Upper Thames River Source Protection Area	Undertaking a watershed characterization	Upper Thames River Conservation Authority	2008-Mar-31	\$29,274
Upper Thames River Source Protection Area	Conducting a conceptual water budget	Upper Thames River Conservation Authority	2008-Mar-31	\$566,174
Upper Thames River Source Protection Area	Conducting a tier 1 water budget analysis and stress assessment	Upper Thames River Conservation Authority	2008-Aug-31	\$411,500
Upper Thames River Source Protection Area	Conducting a tier 2 water budget analysis and stress assessment	Upper Thames River Conservation Authority	2009-May-31	\$330,000
Upper Thames River Source Protection Area	Conducting a tier 3 water budget analysis and water quantity risk assessment	Upper Thames River Conservation Authority	2009-Nov-30	\$650,000
Upper Thames River Source Protection Area	Delineating and applying vulnerability scores to HVAs	Upper Thames River Conservation Authority	2008-Dec-31	\$29,000
Upper Thames River	Identifying issues, inventorying threats and assessing	Upper Thames River Conservation	2009-Jun-01	\$40,000

Source Protection Area	hazards in HVAs	Authority		
Upper Thames River Source Protection Area	Assessing risks in HVAs	Upper Thames River Conservation Authority	2009-Aug-01	\$42,000
Upper Thames River Source Protection Area	Applying vulnerability scores to SGRAs	Upper Thames River Conservation Authority	2008-Dec-01	\$15,000
Upper Thames River Source Protection Area	Identifying issues, inventorying threats and assessing hazards in SGRAs	Upper Thames River Conservation Authority	2009-Jun-01	\$50,000
Upper Thames River Source Protection Area	Assessing risk in SGRAs	Upper Thames River Conservation Authority	2009-Aug-01	\$42,000
Upper Thames River Source Protection Area	Delineating and applying vulnerability scores to WHPAs or IPZs	Upper Thames River Conservation Authority	2009-Jun-30	\$29,000
Upper Thames River Source Protection Area	Delineating and applying vulnerability scores to WHPAs or IPZs	City of London	2009-Jun-30	\$82,150
Upper Thames River Source Protection Area	Delineating and applying vulnerability scores to WHPAs or IPZs	Upper Thames River Conservation Authority	2009-Jun-01	\$95,000
Upper Thames River Source Protection Area	Delineating and applying vulnerability scores to WHPAs or IPZs	County of Oxford	2009-Mar-31	\$41,233
Upper Thames River Source Protection Area	Delineating and applying vulnerability scores to WHPAs or IPZs	Upper Thames River Conservation Authority	2009-Apr-30	\$26,515
Upper Thames River Source Protection Area	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	Upper Thames River Conservation Authority	2009-Jun-30	\$143,000
Upper Thames River Source Protection Area	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	County of Oxford	2009-Mar-31	\$80,734
Upper Thames River	Identifying issues, inventorying threats and assessing	Upper Thames River Conservation	2009-Apr-30	\$141,333

Source Protection Area	hazards in WHPAs or IPZs	Authority		
Upper Thames River Source Protection Area	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	City of London	2009-Jun-30	\$187,634
Upper Thames River Source Protection Area	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs Threats caused by transportation corridors (land, water) shall be identified and considered in risk assessment.	Upper Thames River Conservation Authority	2009-Sep-30	
Upper Thames River Source Protection Area	Assess risk in WHPAs or IPZs	County of Oxford	2009-Jun-30	\$67,500
Upper Thames River Source Protection Area	Assess risk in WHPAs or IPZs	City of London	2009-Jun-30	\$43,348
Upper Thames River Source Protection Area	Assess risk in WHPAs or IPZs	Upper Thames River Conservation Authority	2009-Apr-30	\$54,949
Upper Thames River Source Protection Area	Assess risk in WHPAs or IPZs	Upper Thames River Conservation Authority	2009-Jun-30	\$194,000
Upper Thames River Source Protection Area	Consultation on the overall proposed assessment report	Upper Thames River Conservation Authority	2010-Mar-31	\$15,000
Upper Thames River Source Protection Area	GUDI IPZ Study - Preliminary Screening	Upper Thames River Conservation Authority	2009-Mar-31	\$25,000
Upper Thames River Source Protection Area	Peer Review and resulting edits of Vulnerability Assessment work	Upper Thames River Conservation Authority	2009-Jul-31	\$270,000
Upper Thames River Source Protection Area	GUDI - IPZ Studies - Threats Inventories and Risk Assessment	County of Oxford	2009-Sep-30	\$15,000
Upper Thames River Source Protection Area	GUDI - IPZ Studies - Vulnerability Assessment, Threats Inventory and Risk Assessment	Upper Thames River Conservation Authority	2009-Mar-31	\$110,000

Municipal Residential Drinking Water Systems				
Dorchester Well Supply	Delineating and applying vulnerability scores to WHPAs or IPZs	Municipality of Thames Centre	2007-Jun-30	\$91,000
Woodstock Well Supply - New Well	Delineating and applying vulnerability scores to WHPAs or IPZs	County of Oxford	2009-Jun-30	\$16,000
Mount Elgin Well Supply - New Well	Delineating and applying vulnerability scores to WHPAs or IPZs	County of Oxford	2009-Jun-30	\$5,850
St. Marys Well Supply	Delineating and applying vulnerability scores to WHPAs or IPZs	Town of St. Marys	2008-Aug-31	\$28,167
Dorchester Well Supply	Delineating and applying vulnerability scores to WHPAs or IPZs	Upper Thames River Conservation Authority	2009-Mar-31	\$40,000
Woodstock Well Supply - New Well	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	County of Oxford	2009-Jun-30	\$8,000
Mount Elgin Well Supply - New Well	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	County of Oxford	2009-Jun-30	\$10,000
St. Marys Well Supply	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	Town of St. Marys	2009-Jan-31	\$63,667
Woodstock Well Supply - New Well	Assess risk in WHPAs or IPZs	County of Oxford	2009-Sep-30	\$1,000
Mount Elgin Well Supply - New Well	Assess risk in WHPAs or IPZs	County of Oxford	2009-Sep-30	\$2,000
St. Marys Well Supply	Assess risk in WHPAs or IPZs	Town of St. Marys	2009-Apr-30	\$21,167
Thamesford WS	GUDI-IPZ 2 delineation and vulnerability scoring; study of need for IPZ 3	County of Oxford	2009-Jul-31	\$40,000
Woodstock Well Supply	GUDI IPZ work - IPZ2 delineation and vulnerability scoring	County of Oxford	2009-Jul-31	\$25,000
Thorndale Well Supply	Update existing WHPA to account for system expansion and mandatory connection	Upper Thames River Conservation Authority	2009-Mar-31	\$15,000
Dorchester Well Supply	Review of past work, remodeling of WHPA in overburden wells and assigning vulnerability scores	Municipality of Thames Centre	2009-Mar-31	\$12,000
Drinking Water Systems By Municipal Resolution				
Drinking Water Systems By Band Resolution				

Fully or Partially Exempt Drinking Water Systems	
Drinking Water Systems Included By Minister	

The Work Plan to Complete the Source Protection Plan

By Source Protection Area/ Drinking Water System Name	Task	Assigned Lead(s)	Estimated Completion Date	Estimated Cost
Upper Thames River Source Protection Area	Coordinating and supporting projects for the source protection plan (SPP)	Upper Thames River Conservation Authority	2012-Aug-20	\$3,670,000
Upper Thames River Source Protection Area	Undertaking communications initiatives for the source protection plan	Source Protection Committee	2012-Aug-20	\$230,000
Upper Thames River Source Protection Area	Information management for source protection plan preparation	Upper Thames River Conservation Authority	2012-Aug-20	\$190,000
Upper Thames River Source Protection Area	Policy development to address drinking water threats (where required and/or permissible in Act/Regs)	Source Protection Committee	2012-Aug-20	
Upper Thames River Source Protection Area	Policy development to address drinking water threats (where required and/or permissible in Act/Regs)	County of Oxford	2011-Mar-31	\$50,000
Upper Thames River Source Protection Area	Policy development for monitoring (where required, advisable and/or permissible in Act & Regs)	Source Protection Committee	2012-Aug-20	
Upper Thames River Source Protection Area	Policy development for Great Lakes elements (where required/permissible in Act & Regs)	Source Protection Committee	2012-Aug-20	
Upper Thames River	Establishing timelines for policy implementation	Source Protection Committee	2012-Aug-20	

Source Protection Area				
Upper Thames River Source Protection Area	Consultation on the overall proposed source protection plan	Source Protection Committee	2012-Jul-31	\$25,000
Municipal Residential Drinking Water Systems				
Drinking Water Systems By Municipal Resolution				
Drinking Water Systems By Band Resolution				
Fully or Partially Exempt Drinking Water Systems				
Drinking Water Systems Included By Minister				

The Date the Source Protection Plan is to be Submitted to the Minister for Approval by the Upper Thames River Conservation Authority:

2012-Aug-20

Council Resolution(s) to Include Drinking Water System(s)

None.

Council Resolution(s) to Exempt Municipal Residential Drinking Water System(s)

None.

Detailed Information

Detailed Information on Municipal Residential Drinking Water System(s)

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220000674	Beachville-Loweville Well Supply	County of Oxford	County of Oxford	Groundwater	1
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220000665	Embros Well Supply	County of Oxford	County of Oxford	Groundwater	2
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220006124	Hickson King Subdivision Well Supply	County of Oxford	County of Oxford	Groundwater	1
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells

Existing	220000692	Ingersoll Well Supply	County of Oxford	County of Oxford	Groundwater	7
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	260046995	Innerkip Well Supply	County of Oxford	County of Oxford	Groundwater	2
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220007533	Lakeside Well Supply	County of Oxford	County of Oxford	Groundwater	1
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220000629	Mount Elgin Well Supply	County of Oxford	County of Oxford	Groundwater	1
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220000647	Tavistock Well Supply	County of Oxford	County of Oxford	Groundwater	3
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220000610	Thamesford WS	County of Oxford	County of Oxford	Surface and Groundwater	3
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220000709	Woodstock Well Supply	County of Oxford	County of Oxford	Surface and Groundwater	10
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Planned	220000709	Woodstock Well Supply - New Well	County of Oxford	County of Oxford	Groundwater	1
Number of Surface Water Intakes	Comments					
0	Planned 'Bond Well' to be a part of the existing Woodstock Well Supply System.					

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Planned	220000629	Mount Elgin Well Supply - New Well	County of Oxford	County of Oxford	Groundwater	1
Number of Surface Water Intakes	Comments					
0	Planned 'Graydon Well' to be a part of the existing Mount Elgin Well Supply System.					

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220000521	St. Marys Well Supply	Town of St. Marys	Town of St. Marys	Surface and Groundwater	3
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220000530	Stratford Well Supply	City of Stratford	City of Stratford	Groundwater	11
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	260003084	Sebringville Well Supply	Township of Perth South	Ontario Clean Water Agency	Groundwater	1
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220003948	St. Pauls Well Supply	Township of Perth South	Township of Perth South	Groundwater	1
Number of Surface Water Intakes	Comments					
0						

Drinking Water	Drinking Water	Drinking Water System Name	Owner	Operating Authority	Source Water Type	Number
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System Type (planned or existing)	System Number				(surface, ground, both)	of Wells
Existing	260002317	Shakespeare Well Supply	Township of Perth East	American Water Canada Corp.	Groundwater	1
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	210000577	Mitchell Well Supply	Municipality of West Perth	West Perth Power Inc.	Groundwater	4
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	260004917	London Water Supply	City of London	The Corporation of the City of London	Surface and Groundwater	7
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220005492	Birr Well Supply	Township of Middlesex Centre	Ontario Clean Water Agency	Groundwater	1
Number of Surface Water Intakes	Comments					
0						

Drinking Water	Drinking Water	Drinking Water System Name	Owner	Operating Authority	Source Water Type	Number
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System Type (planned or existing)	System Number				(surface, ground, both)	of Wells
Existing	220002146	Dorchester Well Supply	Municipality of Thames Centre	Municipality of Thames Centre	Surface and Groundwater	8
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	210003994	Kilworth Heights Subdivision Well Supply	Township of Middlesex Centre	Ontario Clean Water Agency	Surface and Groundwater	3
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	260002915	Melrose Well Supply	Township of Middlesex Centre	Ontario Clean Water Agency	Groundwater	2
Number of Surface Water Intakes	Comments					
0						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220006115	Thorndale Well Supply	Municipality of Thames Centre	Municipality of Thames Centre	Groundwater	2
Number of Surface Water Intakes	Comments					
0						

Drinking Water	Drinking Water	Drinking Water System Name	Owner	Operating Authority	Source Water Type	Number
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System Type (planned or existing)	System Number				(surface, ground, both)	of Wells
Existing	210003985	Mount Brydges Well Supply	Township of Strathroy- Caradoc	Township of Strathroy- Caradoc	Groundwater	2
Number of Surface Water Intakes	Comments					
0	Mount Brydges well supply system lies in the Upper Thames River SPA and supplies water to residents in the St. Clair Region SPA also.					

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Planned	220002146	New Dorchester Planned Well	Municipality of Thames Centre	Municipality of Thames Centre	Surface and Groundwater	1
Number of Surface Water Intakes	Comments					
0	The proposed well is undergoing an Environmental Assessment (EA) in order to qualify for being a 'planned well'. It will be a part of the existing Dorchester well supply system. The EA is expected to be posted to the MOE EBR in September 2008.					

**Detailed Information on Drinking Water System(s) Included by Municipal Council Resolution
(Not Municipal Residential Drinking Water Systems)**

No systems included.

**Detailed Information on Drinking Water System(s) Included by Bands Serving Reserve(s)
(Not Municipal Residential Drinking Water Systems)**

No systems included.

Detailed Information on Fully or Partially Exempted Municipal Residential Drinking Water System(s)

No systems exempted.

**Detailed Information on Drinking Water System(s) Included by the Minister of the Environment
(Not Municipal Residential Drinking Water Systems)**

No systems included.

Detailed Work Plan to Complete the Assessment Report

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Coordinating and supporting projects for the assessment report	Upper Thames River Conservation Authority	2005-Jan-01	2010-Jan-31
Comments		Defined Geographic Area		Estimated Cost
Includes costs and work done on the St. Clair Region SPA and the Lower Thames Valley SPA.		Upper Thames River, Lower Thames Valley, St. Clair Region SPA		\$4,380,098

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Undertaking communications initiatives for the assessment report	Upper Thames River Conservation Authority	2005-Jan-01	2010-Jan-31
Comments		Defined Geographic Area		Estimated Cost
<p>This task includes communications initiatives related to the formation of the SPC including engaging sectors such as the agricultural, municipal, industrial and first nations in the SPC formation process. Also included are initiatives related to public outreach on the Source Protection Planning process and the Clean Water Act.</p> <p>Future initiatives will focus on communications related to the assessment report and the technical work to support the Assessment Report. Communications initiatives included in this task include the production of displays, presentation materials, tabloids, newsletters, printed materials as well as support of work groups, forums, and stakeholder meetings to discuss the technical work with stakeholders. Specific outreach will be undertaken in areas where significant risks are likely.</p> <p>The Assessment Report Regulation will likely require specific consultation on the proposed Assessment Report. Costs estimates to meet those anticipated requirements are included in a separate task. The initiatives included in this task will complement those requirements.</p> <p>Staff time related to this item have been included with the task related to the coordination and support of the Assessment Report.</p>		All three Source Protection Areas (SPAs) of the Thames-Sydenham and Region Source Protection Region: Upper Thames River SPA, Lower Thames Valley SPA and St. Clair Region SPA		\$352,750

Includes costs and work done on the St. Clair Region SPA and the Lower Thames Valley SPA.		
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By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Information management for the assessment report preparation	Upper Thames River Conservation Authority	2005-Jan-01	2010-Jan-31
Comments		Defined Geographic Area		Estimated Cost
Includes costs and work done on the St. Clair Region SPA and the Lower Thames Valley SPA.		Upper Thames River, Lower Thames Valley, St. Clair Region SPA		\$405,521

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Undertaking a watershed characterization	Upper Thames River Conservation Authority	2005-Jan-01	2008-Mar-31
Comments		Defined Geographic Area		Estimated Cost
Production of a Watershed Characterization Report for the St Clair Source Protection Area and Thames Watershed and Region.		Upper Thames River, Lower Thames Valley, St. Clair Region SPA		\$29,274

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Conducting a conceptual water budget	Upper Thames River Conservation Authority	2005-Jan-01	2008-Mar-31
Comments		Defined Geographic Area		Estimated Cost
Completed a Conceptual Water Budget for the Thames-Sydenham and Region		Upper Thames River, Lower Thames Valley, St. Clair Region SPA		\$566,174

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Conducting a tier 1 water budget analysis and stress assessment	Upper Thames River Conservation Authority	2007-Aug-01	2008-Aug-31
Comments		Defined Geographic Area		Estimated Cost
Developing T1 Water Budgets for each of St Clair Region, Lower Thames Valley and Upper Thames River SPA.		Upper Thames River, Lower Thames Valley, St. Clair Region SPA		\$411,500

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Conducting a tier 2 water budget analysis and stress assessment	Upper Thames River Conservation Authority	2008-Oct-01	2009-May-31
Comments		Defined Geographic Area		Estimated Cost
The need for and scope of this project is dependant on the outcomes of the Tier 1 Water Budget. The Tier 2 Water Budget will refine the water supply and demand components of the Tier 1 Water Budgets and reassess the potential for stress in those watersheds. The Tier 2 Water Budget will also consider drought scenarios not considered in the Tier 1.		Potentially stressed sub-watersheds within the Upper Thames River, Lower Thames Valley, St. Clair Region SPA		\$330,000

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Conducting a tier 3 water budget analysis and water quantity risk assessment	Upper Thames River Conservation Authority	2009-Apr-01	2009-Nov-30
Comments		Defined Geographic Area		Estimated Cost
Tier 3 Water Budgets are required to be undertaken on areas contributing to municipal water systems in sub-watersheds which are shown as potentially stressed through the completion of the Tier 2 Water Budgets.		Tier 3 Water budgets will be required in any areas which are shown as possibly under stress following the completion of the Tier 2 Water Budget. As such the municipal water systems which will be considered has not yet been determined.		\$650,000

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Delineating and applying vulnerability scores to HVAs	Upper Thames River Conservation Authority	2008-May-01	2008-Dec-31
Comments		Defined Geographic Area		Estimated Cost
Intrinsic Susceptibility Index scores have been completed through past groundwater studies across the region. The mapping products from these separate county based studies have been compiled into a single mapping product, however there are issues with conflicting scoring at areas of overlap. This was to be expected as each study relied on the interpretation of data from within their study area. Near the edges of the study area different interpolation and extrapolations results should be expected based on the use of different data points near the boundaries.		Thames-Sydenham and Region Source Protection Region including the LTVSPA, SCRSPA and the UTRSPA		\$29,000
Costs for this task include work in the SCRSPA and LTVSPA.				

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Identifying issues, inventorying threats and assessing hazards in HVAs	Upper Thames River Conservation Authority	2008-Oct-01	2009-Jun-01
Comments		Defined Geographic Area		Estimated Cost
<p>Once delineated these areas will be assessed for the general nature of the types of threats contained in the areas. All threats which could result in a significant risk will be inventoried. Current guidance suggests a vulnerability score of 6 for these areas. As such it is not anticipated that significant risks will be identified in these areas. General types of land use in these areas will be characterized to the extent necessary to develop appropriate policies for these types of threats in HVAs.</p> <p>Issues in these areas will be identified through the analysis of monitoring wells and municipal wells in the general areas as well as through discussions with the local health units who may be able to rely on interpretation of private well information.</p> <p>Issues may be considered in determining whether certain types of threats need to be inventoried in the area, however no allowance has been made in this task for a detailed inventory of such threats.</p> <p>Costs for this task include work in the SCRSPA and LTVSPA.</p>		Thames-Sydenham and Region Source Protection Region including the LTVSPA, SCRSPA and the UTRSPA		\$40,000

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Assessing risks in HVAs	Upper Thames River Conservation Authority	2009-Apr-01	2009-Aug-01
Comments		Defined Geographic Area		Estimated Cost
<p>Based on vulnerability scores and general threats characterization in the HVAs, possible risk scores will be assessed.</p> <p>Costs for this task include work in the SCRSPA and LTVSPA.</p>		Thames-Sydenham and Region Source Protection Region including the LTVSPA, SCRSPA and the UTRSPA		\$42,000

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River	Applying vulnerability scores to SGRAs	Upper Thames River Conservation	2008-Oct-01	2008-Dec-01

Source Protection Area		Authority	
Comments		Defined Geographic Area	
<p>SGRAs will be defined through the Water Budget work. The vulnerability of these areas will be assessed based on Director's Rules and guidance. ISI scores are available for WHPAs as well as the regional ISI scores developed through the HVA delineation project. These results will need to be compared and the most appropriate scoring applied to the SGRA. It will be important that the vulnerability score associated with these areas be consistent with those parts of the WHPA which are part of the SGRA.</p> <p>Costs for this task include work in the LTVSPA and SCRSPA.</p>		<p>Thames-Sydenham and Region Source Protection Region including the LTVSPA, SCRSPA and the UTRSPA</p> <p style="text-align: right;">\$15,000</p>	

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Identifying issues, inventorying threats and assessing hazards in SGRAs	Upper Thames River Conservation Authority	2008-Oct-01	2009-Jun-01
Comments		Defined Geographic Area		Estimated Cost
<p>Once delineated these areas will be assessed for the general nature of the types of threats contained in the areas. All threats which could result in a significant risk will be inventoried. Current guidance suggests a vulnerability score of 6 for these areas. As such it is not anticipated that significant risks will be identified in these areas. General types of land use in these areas will be characterized to the extent necessary to develop appropriate policies for these types of threats in SGRAs.</p> <p>Issues in these areas will be identified through the analysis of monitoring wells and municipal wells in the general areas as well as through discussions with the local health units who may be able to rely on interpretation of private well information.</p> <p>Issues may be considered in determining whether certain types of threats need to be inventoried in the area, however no allowance has been made in this task for a detailed inventory of such threats.</p> <p>Costs for this task include work in the LTVSPA and SCRSPA.</p>		<p>Thames-Sydenham and Region Source Protection Region including the LTVSPA, SCRSPA and the UTRSPA</p> <p style="text-align: right;">\$50,000</p>		

By Source Protection	Task	Assigned Lead(s)	Estimated Start	Estimated
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Area			Date	Completion Date
Upper Thames River Source Protection Area	Assessing risk in SGRAs	Upper Thames River Conservation Authority	2009-Apr-01	2009-Aug-01
Comments		Defined Geographic Area		Estimated Cost
Costs for this task include work in the LTVSPA and SCRSPA.		Thames-Sydenham and Region Source Protection Region including the LTVSPA, SCRSPA and the UTRSPA		\$42,000

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Delineating and applying vulnerability scores to WHPAs or IPZs	Upper Thames River Conservation Authority	2008-Dec-01	2009-Jun-30
Comments		Defined Geographic Area		Estimated Cost
Proposed costs are estimates of the updates and further work required to ensure the technical studies meet the Director's Technical Rules posted on the Ministry of Environment Environmental Bill of Rights Registry in June 2008. The scope of this task may change as a result of changes to the rules from those posted. Related, previously funded work for the same well supply systems is led by the City of London and shown in a separate task 'Delineating and applying vulnerability scores to WHPAs or IPZs' (Task No. 49 in the ToR Guide).		All Middlesex County and City of London wells within the Thames Sydenham and Region Source Protection Region - City of London Standby, Birr, Dorchester, Melrose, Kilworth Heights Subdivision, Mount Brydges and Thorndale		\$29,000

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Delineating and applying vulnerability scores to WHPAs or IPZs	City of London	2005-Apr-01	2009-Jun-30
Comments		Defined Geographic Area		Estimated Cost
Work for this task is funded by the Ministry of Environment through an agreement with the project lead. Proposed work for the same well supply systems is led by the UTRCA and shown in a separate task 'Delineating and applying vulnerability scores to WHPAs or IPZs' (Task No. 89 in the ToR Guide).		All Middlesex County and City of London wells within the Thames Sydenham and Region Source Protection Region - City of London Standby, Birr, Dorchester, Melrose, Kilworth Heights Subdivision, Mount Brydges and Thorndale		\$82,150

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Delineating and applying vulnerability scores to WHPAs or IPZs	Upper Thames River Conservation Authority	2008-Oct-01	2009-Jun-01

Comments	Defined Geographic Area	Estimated Cost
<p>It is anticipated that the Director's Rules will require the delineation, vulnerability assessment and Risk Assessment of IPZ3 (or other methodologies for assessing risks resulting from issues or concerns outside of IPZ1 & 2) for intakes on Lake St Clair and the Wallaceburg intake.</p> <p>Delineation and applying vulnerability scores for IPZ3 related to the Lake St Clair and Wallaceburg intakes will be completed according to the requirements of the Director's Rules. The MISED models developed through the past work will be used to identify areas, outside of the original model scope (developed to delineate IPZ2), which can contribute risks to the intakes. The models will be combined and improved to include discharges from the major rivers which may contribute risks to the intakes. Watercourses available in Conservation Authority and provincial data sets will be utilized to delineate the IPZ3 within the contributing watersheds. The modelling will be used as an indicator of areas more vulnerable (more likely to contribute risks) than others within the delineated IPZ3 and vulnerability scores will be assigned accordingly.</p> <p>Costs for this task include work to be done in the Lower Thames Valley SPA and the St. Clair Region SPA. Costs are shown here in the Upper Thames Region SPA Terms of Reference since it is the lead on this study.</p>	<p>Wallaceburg intake in the St. Clair Region SPA as well as intakes in the Essex Region SPA on Lake St. Clair. IPZ3 will include the Thames and Sydenham Watersheds as well as smaller tributaries which drain directly into the St. Clair River and Lake St. Clair.</p>	<p>\$95,000</p>

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Delineating and applying vulnerability scores to WHPAs or IPZs	County of Oxford	2006-Apr-01	2009-Mar-31
Comments	Defined Geographic Area			Estimated Cost
<p>Oxford County Groundwater Technical Study: costs shown are estimates for the 10 County of Oxford well supply systems of the Thames-Sydenham and Region. Includes funded amounts for the two planned wells (Bond and Graydon - \$5,750 each).</p> <p>Proposed costs are estimates of the updates and further work required to ensure the technical studies meet the Director's Technical Rules posted on the Ministry of Environment Environmental Bill of Rights Registry in June 2008. The scope of this task may change as a result of changes to the rules from those posted.</p>	<p>County of Oxford systems in the TSR: Beachville-Loweville Subdivision, Embro, Hickson-King Subdivision, Ingersoll, Innerkip, Lakeside, Mount Elgin, Tavistock, Thamesford and Woodstock</p>			<p>\$41,233</p>

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Delineating and applying vulnerability scores to WHPAs or IPZs	Upper Thames River Conservation Authority	2005-Apr-01	2009-Apr-30
Comments		Defined Geographic Area		Estimated Cost
Perth County Groundwater Technical Study. Proposed costs are estimates of the updates and further work required to ensure the technical studies meet the Proposed Director's Technical Rules posted on the Ministry of Environment Environmental Bill of Rights Registry in June 2008. The scope of this task may change as a result of changes to the rules from those posted. The task includes one well supply in the Lake Erie SPR, however those costs are not included here).		St. Marys, Stratford well supply systems as well as the Perth County systems of Mitchell, Sebringville (Black Creek Estates), Shakespeare (Miller Ave.) and St. Paul's		\$26,515

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	Upper Thames River Conservation Authority	2008-Dec-01	2009-Jun-30
Comments		Defined Geographic Area		Estimated Cost
Proposed costs are estimates of the updates and further work required to ensure the technical studies meet the Director's Technical Rules posted on the Ministry of Environment Environmental Bill of Rights Registry in June 2008. The scope of this task may change as a result of changes to the rules from those posted. Related, previously funded work for the same well supply systems is led by the City of London and shown in a separate task 'Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs' (Task No. 57 in the ToR Guide).		All Middlesex County and City of London wells within the Thames Sydenham and Region Source Protection Region - City of London Standby, Birr, Dorchester, Melrose, Kilworth Heights Subdivision, Mount Brydges and Thorndale		\$143,000

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	County of Oxford	2005-Apr-01	2009-Mar-31
Comments		Defined Geographic Area		Estimated Cost
Oxford County Groundwater Technical Study included 10 systems in the Thames Sydenham and Region.		County of Oxford systems: Beachville-Loweville Subdivision, Embro, Hickson-King Subdivision, Ingersoll, Innerkip, Lakeside,		\$80,734

Proposed costs are estimates of the updates and further work required to ensure the technical studies meet the Director's Technical Rules posted on the Ministry of Environment Environmental Bill of Rights Registry in June 2008. The scope of this task may change as a result of changes to the rules from those posted.	Mount Elgin, Tavistock, Thamesford and Woodstock	
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By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	Upper Thames River Conservation Authority	2005-Apr-01	2009-Apr-30
Comments		Defined Geographic Area		Estimated Cost
Perth County Groundwater Technical Study. Proposed costs are estimates of the updates and further work required to ensure the technical studies meet the Director's Technical Rules posted on the Ministry of Environment Environmental Bill of Rights Registry in June 2008. The scope of this task may change as a result of changes to the rules from those posted.		St. Marys, Stratford well supply systems as well as the Perth County systems of Mitchell, Sebringville (Black Creek Estates), Shakespeare (Miller Ave.) and St. Paul's		\$141,333

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	City of London	2005-Apr-01	2009-Jun-30
Comments		Defined Geographic Area		Estimated Cost
Work for this task is funded by the Ministry of Environment through an agreement with the project lead. Proposed work for the same well supply systems is led by the UTRCA and shown in a separate task 'Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs' (Task No. 90 in the ToR Guide).		All Middlesex County and City of London wells within the Thames Sydenham and Region Source Protection Region - City of London Standby, Birr, Dorchester, Melrose, Kilworth Heights Subdivision, Mount Brydges and Thorndale		\$187,634

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs Threats caused by transportation corridors (land, water)	Upper Thames River Conservation Authority	2009-Apr-01	2009-Sep-30

	shall be identified and considered in risk assessment.			
Comments		Defined Geographic Area		Estimated Cost
<p>Many of the technical studies, through which threats in the Well Head Protection Areas and Intake Protection Zones were inventoried, will consider potential threats posed by corridors and the transportation of materials. The transportation of materials in corridors is an activity which would pose a risk to drinking water sources if those materials were released in those areas. Corridors to be considered will include pipelines as well as significant transportation corridors including rail, road and shipping. Although the June 2008 drafts of the Assessment Report Regulations and Rules do not specifically identify corridors as a threat, they do allow for the SPC to identify activities not included in the list of threats which they feel present a risk to drinking water sources.</p> <p>Through work associated with this task, the SPC will assess the extent to which the local threats inventories considered corridors and the transportation of materials within the WHPAs and IPZs, determine if there are data gaps in that work and identify methodologies to fill those gaps. The SPC will also consider a means to assess the risk to the drinking water sources that these potential threats pose. It is hoped that the Province will include in the final Rules and Regulations a methodology which adequately allows these threats to be considered by the SPC. Further, it is hoped that the Province will coordinate and provide guidance as to how the SPC may deal locally with these potential threats. This task will allow the SPC and CA staff to liaise with the Province to ensure that these potential threats are properly considered in the Assessment Report and Source Protection Plan. In the absence of Provincial direction, this task will allow for the SPC to consider the local impact of these activities on the local drinking water supplies.</p> <p>Cost for this task are dependant on the level of work undertaken and coordinated provincially. As such costs for this task are yet to be determined.</p>		Thames-Sydenham and Region: Lower Thames SPA, St. Clair SPA, Upper Thames SPA.		

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Assess risk in WHPAs or IPZs	County of Oxford	2006-Apr-01	2009-Jun-30

Comments	Defined Geographic Area	Estimated Cost
Oxford County Groundwater Technical Study: costs shown are for the 10 County of Oxford well supply systems in the Thames Sydenham and Region. Proposed costs are estimates of the updates and further work required to ensure the technical studies meet the Director's Technical Rules posted on the Ministry of Environment Environmental Bill of Rights Registry in June 2008. The scope of this task may change as a result of changes to the rules from those posted.	County of Oxford systems: Beachville-Loweville Subdivision, Embro, Hickson-King Subdivision, Ingersoll, Innerkip, Lakeside, Mount Elgin, Tavistock, Thamesford and Woodstock	\$67,500

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Assess risk in WHPAs or IPZs	City of London	2006-Apr-01	2009-Jun-30
Comments	Defined Geographic Area		Estimated Cost	
Work for this task is funded by the Ministry of Environment through an agreement with the project lead. Proposed work for the same well supply systems is led by the UTRCA and shown in a separate task 'Assess risk in WHPAs or IPZs' (Task No. 91 in the ToR Guide).	All Middlesex County and City of London wells within the Thames Sydenham and Region Source Protection Region - City of London Standby, Birr, Dorchester, Melrose, Kilworth Heights Subdivision, Mount Brydges and Thorndale		\$43,348	

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Assess risk in WHPAs or IPZs	Upper Thames River Conservation Authority	2006-Apr-01	2009-Apr-30
Comments	Defined Geographic Area		Estimated Cost	
Perth County Groundwater Technical Study. Proposed costs are estimates of the updates and further work required to ensure the technical studies meet the Director's Technical Rules posted on the Ministry of Environment Environmental Bill of Rights Registry in June 2008. The scope of this task may change as a result of changes to the rules from those posted.	St. Marys, Stratford well supply systems as well as the Perth County systems of Mitchell, Sebringville (Black Creek Estates), Shakespeare (Miller Ave.) and St. Paul's		\$54,949	

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River	Assess risk in WHPAs or IPZs	Upper Thames River Conservation	2006-Apr-01	2009-Jun-30

Source Protection Area	Authority	Estimated Cost
Comments	Defined Geographic Area	Estimated Cost
The 2008-2009 cost estimates are for individual contact with landowners where risks could be significant, and updating risk assessment based on survey results. Proposed costs are estimates of the updates and further work required to ensure the technical studies meet the Director's Technical Rules posted on the Ministry of Environment Environmental Bill of Rights Registry in June 2008. The scope of this task may change as a result of changes to the rules from those posted. Related, previously funded work for the same well supply systems is led by the City of London and shown in a separate task ' Assess risk in WHPAs or IPZs' (Task No. 64 in the ToR Guide).	All Middlesex County and City of London wells within the Thames Sydenham and Region Source Protection Region - City of London Standby, Birr, Dorchester, Melrose, Kilworth Heights Subdivision, Mount Brydges and Thorndale	\$194,000

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Consultation on the overall proposed assessment report	Upper Thames River Conservation Authority	2009-Dec-01	2010-Mar-31
Comments	Defined Geographic Area	Estimated Cost		
It is anticipated that the Assessment Report Rules and Regulations will have specific requirements to consult on the proposed Assessment Report. It is expected that these requirements will be similar to the requirements for the consultation the proposed requirements for consultation on the Assessment Report included in the proposed Regulation and Rules on the Assessment Report which have been posted for comments. As the requirements for this consultation are yet unknown the planned activities included in this task will need to be re-evaluated once the Rules and Regulations are in place. It is anticipated that the SPC will be required to post a draft and publish a notice. Advertising costs related to this are included in this task. Although it is expected that a single meeting will be required we have included in this task holding a series of open houses and forums in addition an anticipated requirement to hold a public meeting. Initiatives included on the task related to undertaking communications initiatives related to the Assessment Report complement the proposed consultation included in this task. Staff time related to this task has been allowed for in the task related to coordinating and supporting projects for the Assessment Report.	All three Source Protection Areas (SPAs) of the Thames-Sydenham and Region Source Protection Region: Upper Thames River SPA, Lower Thames Valley SPA and St. Clair Region SPA	\$15,000		

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	GUDI IPZ Study - Preliminary Screening	Upper Thames River Conservation Authority	2008-Apr-01	2009-Mar-31
Comments		Defined Geographic Area		Estimated Cost
MOE proposed rules related to Groundwater Under the Direct Influence of surface water (GUDI)- Intake Protection Zone (IPZ) studies was posted in June 2008. It is anticipated that the rules will require that IPZ type vulnerable zones will be required for GUDI wells. The preliminary screening of the systems will compile available information, delineate approximate IPZ3 based on that available information and assess the types and magnitude of potential treats in that area.		GUDI wells of these drinking water systems: City of London back up (Fanshawe wells), Dorchester, Kilworth Heights and Highgate systems		\$25,000
Costs include work on the Highgate system in the LTVSPA				

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Peer Review and resulting edits of Vulnerability Assessment work	Upper Thames River Conservation Authority	2008-Oct-01	2009-Jul-31
Comments		Defined Geographic Area		Estimated Cost
Establish peer review committees for Surface Water, Groundwater and GUDI work to review the vulnerability assessment completed through various projects led by both municipalities and CAs. A modest allowance has been included to undertake revisions to work which has been accepted by the lead. It is anticipated that much of the work required as a result of the peer reviews has been included under tasks associated with updating work to meet the Director's Rules. An allowance has also been included for a review of the data sets utilized in each of the projects.		Thames-Sydenham and Region		\$270,000

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	GUDI - IPZ Studies - Threats Inventories and Risk Assessment	County of Oxford	2009-Jul-01	2009-Sep-30
Comments		Defined Geographic Area		Estimated Cost
MOE draft new guidance on Groundwater Under the Direct Influence of surface water (GUDI)- Intake Protection Zone (IPZ) studies was posted in June 2008.		Oxford County GUDI well systems in the Thames-Sydenham and Region Source Protection Region: Woodstock (Thornton and Tabor wellfields) and Thamesford (Wells #1 and 2)		\$15,000

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	GUDI - IPZ Studies - Vulnerability Assessment, Threats Inventory and Risk Assessment	Upper Thames River Conservation Authority	2008-Apr-01	2009-Mar-31
Comments		Defined Geographic Area		Estimated Cost
MOE proposed rules related to Groundwater Under the Direct Influence of surface water (GUDI)- Intake Protection Zone (IPZ) studies was posted in June 2008. It is anticipated that the rules will require that IPZ type vulnerable zones will be required for GUDI wells.		GUDI wells of these drinking water systems: City of London back up (Fanshawe wells), Dorchester, Kilworth Heights and Highgate (in LTVSPA)		\$110,000

By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Dorchester Well Supply	Delineating and applying vulnerability scores to WHPAs or IPZs	Municipality of Thames Centre	2005-Apr-01	2007-Jun-30
Comments		Defined Geographic Area		Estimated Cost
In this project led by the Municipality of Thames Centre, the Dorchester well supply system WHPAs were delineated and vulnerability scores assigned.		Dorchester Well supply only		\$91,000

By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Woodstock Well Supply - New Well	Delineating and applying vulnerability scores to WHPAs or IPZs	County of Oxford	2009-Jan-01	2009-Jun-30
Comments		Defined Geographic Area		Estimated Cost
Delineating WHPA and applying vulnerability score for the new planned 'Bond Well' within the existing Woodstock well supply system. Cost estimate excludes a \$5,750 portion of an already funded amount (\$31,233.25) for a similar task for all ten County of Oxford systems.		New planned well ('Bond' well) within the existing Woodstock well supply system		\$16,000

By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Mount Elgin Well Supply - New Well	Delineating and applying vulnerability scores to WHPAs or IPZs	County of Oxford	2009-Jan-01	2009-Jun-30
Comments		Defined Geographic Area		Estimated Cost
Delineating WHPA and applying vulnerability scores to the WHPA of the new planned 'Graydon Well' of the Mount Elgin well supply system.		New planned 'Graydon Well' of the Mount Elgin well supply system of the County of Oxford		\$5,850

Cost estimate excludes a \$5,750 portion of an already funded amount (\$31,233.25) for a similar task for all ten County of Oxford systems.		
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By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
St. Marys Well Supply	Delineating and applying vulnerability scores to WHPAs or IPZs	Town of St. Marys	2006-Apr-01	2008-Aug-31
Comments		Defined Geographic Area		Estimated Cost
MOE proposed rules on Groundwater Under the Direct Influence of surface water (GUDI)- include requirements to delineate Intake Protection Zone (IPZ) type zones around GUDI wells. The Town of St Marys proposed to MOE the need to look at surface water based process for considering threats to their GUDI wells. This work was approved by the MOE following generally the approach for IPZ1 and 2 on surface water sources. This work includes the delineation of the zones (proposed as WHPA E & F) and the assignment of vulnerability scores to those areas. Although IPZ 3 (proposed WHPA zone F) was to be delineated through that project threats inventories in that zone were not included in the previous proposal.		St. Marys GUDI Well		\$28,167

By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Dorchester Well Supply	Delineating and applying vulnerability scores to WHPAs or IPZs	Upper Thames River Conservation Authority	2008-Aug-01	2009-Mar-31
Comments		Defined Geographic Area		Estimated Cost
This task is an update to previous modelling of the Dorchester wells. The bedrock wells were not modelled as part of previous studies as they are rarely used due to aesthetic concerns about the water quality from these wells.		Dorchester Wells		\$40,000

By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Woodstock Well Supply - New Well	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	County of Oxford	2009-Jan-04	2009-Jun-30
Comments		Defined Geographic Area		Estimated Cost
New planned 'Bond Well' within the existing Woodstock well supply system - threats, issues lists and hazard assessment		New planned 'Bond Well' within the existing Woodstock well supply system of the County of Oxford		\$8,000

By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Mount Elgin Well Supply - New Well	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	County of Oxford	2009-Apr-01	2009-Jun-30
Comments		Defined Geographic Area		Estimated Cost
New planned 'Graydon Well' of the Mount Elgin well supply system in the County of Oxford - list issues and threats and assess hazards.		New planned 'Graydon Well' of the Mount Elgin well supply system in the County of Oxford		\$10,000

By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
St. Marys Well Supply	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	Town of St. Marys	2006-Apr-01	2009-Jan-31
Comments		Defined Geographic Area		Estimated Cost
MOE proposed rules on Groundwater Under the Direct Influence of surface water (GUDI)- include requirements to delineate Intake Protection Zone (IPZ) type zones around GUDI wells. The Town of St Marys proposed to MOE the need to look at surface water based process for considering threats to their GUDI wells. This work was approved by the MOE following generally the approach for IPZ1 and 2 on surface water sources. This work includes the delineation of the zones (proposed as WHPA E & F) and the assignment of vulnerability scores to those areas. Although IPZ3 (proposed WHPA zone F) was to be delineated through that project threats inventories in that zone were not included in the previous proposal.		St. Marys GUDI Well		\$63,667

By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Woodstock Well Supply - New Well	Assess risk in WHPAs or IPZs	County of Oxford	2009-Jun-01	2009-Sep-30
Comments		Defined Geographic Area		Estimated Cost
New planned 'Bond Well' within the existing Woodstock well supply system - assess risks in WHPA.		New planned 'Bond Well' within the existing Woodstock well supply system of the County of Oxford		\$1,000

By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Mount Elgin Well Supply - New Well	Assess risk in WHPAs or IPZs	County of Oxford	2009-Jun-01	2009-Sep-30

Comments	Defined Geographic Area	Estimated Cost
New planned 'Graydon Well' of the Mount Elgin well supply system in the County of Oxford - assess risks.	New planned 'Graydon Well' of the Mount Elgin well supply system in the County of Oxford	\$2,000

By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
St. Marys Well Supply	Assess risk in WHPAs or IPZs	Town of St. Marys	2006-Apr-01	2009-Apr-30
Comments	Defined Geographic Area	Estimated Cost		
Risk Assessment will be undertaken for the surface water threats to the GUDI well in the zones proposed by the Director's Rules as WHPA - E & F. The previously approved project did not include an allowance for this work in WHPA F (IPZ3) and has been added to this task in 2008/09.	St. Marys Wells	\$21,167		

By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Thamesford WS	GUDI-IPZ 2 delineation and vulnerability scoring; study of need for IPZ 3	County of Oxford	2008-Oct-01	2009-Jul-31
Comments	Defined Geographic Area	Estimated Cost		
Thamesford well supply system (GUDI) - IPZ2 delineation and vulnerability scoring; study of need for IPZ3. Involves modelling, fieldwork, reporting.	Thamesford well supply system (GUDI) of the County of Oxford	\$40,000		

By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Woodstock Well Supply	GUDI IPZ work - IPZ2 delineation and vulnerability scoring	County of Oxford	2008-Oct-01	2009-Jul-31
Comments	Defined Geographic Area	Estimated Cost		
Woodstock GUDI wells (Thornton and Tabor wells) - IPZ 2 delineation and vulnerability scoring, including modelling, fieldwork, reporting	Woodstock GUDI wells (Thornton & Tabor wells) of the County of Oxford	\$25,000		

By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Thorndale Well Supply	Update existing WHPA to account for system expansion and mandatory connection	Upper Thames River Conservation Authority	2008-Apr-01	2009-Mar-31
Comments	Defined Geographic Area	Estimated Cost		
Update the model for the Thorndale system based on new pumping rates resulting from system expansion and manitory connection to the expanded	Thorndale system.	\$15,000		

system. Pumping rates have substantially increased from pumping rates used in the Middlesex-London study.		
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By Drinking Water System Name	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Dorchester Well Supply	Review of past work, remodeling of WHPA in overburden wells and assigning vulnerability scores	Municipality of Thames Centre	2008-Jun-01	2009-Mar-31
Comments		Defined Geographic Area		Estimated Cost
Review of past work to check consistency with other technical studies. Will include the remodelling of the overburden wells to delineate WHPA as well as assigning vulnerability scores.		Dorchester well supply system		\$12,000

Detailed Work Plan to Complete the Source Protection Plan

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Coordinating and supporting projects for the source protection plan (SPP)	Upper Thames River Conservation Authority	2009-Apr-01	2012-Aug-20
Comments		Defined Geographic Area		Estimated Cost
This task includes the support for the SPC to develop the Source Protection Plan. The Rules, Regulations and provincial guidance on the development of the Source Protection Plan are yet to be released. As such this task is a placeholder for the development of the plan which will need to be revised once the work to complete the plan is better defined.		All three Source Protection Areas (SPAs) of the Thames-Sydenham and Region Source Protection Region: Upper Thames River SPA, Lower Thames Valley SPA and St. Clair Region SPA		\$3,670,000

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Undertaking communications initiatives for the source protection plan	Source Protection Committee	2010-Apr-01	2012-Aug-20
Comments		Defined Geographic Area		Estimated Cost
<p>Developing the Source Protection Plan will be a consultative process requiring significant communications initiatives. As with the SPC formation, Terms of Reference and Assessment Report, stakeholder forums and working groups will be utilized to engage stakeholders throughout the plan development stage as well as the formal consultation which will be required on the proposed plan. These stakeholder engagement initiatives will be complemented by various communications products including newsletters, tabloids and presentations. Local media will be utilized to keep stakeholders informed on Drinking Water Source Protection and progress on the Source Protection Plan as well as stakeholder group distribution (where available).</p> <p>The Rules, Regulations and provincial guidance on the Source Protection Plan are yet to be released. The Rules and Regulations are likely to include significant consultation requirements on the proposed Source Protection Plan. A separate task is included in this Terms of Reference for consultation on the proposed Source Protection Plan which includes anticipated requirements for posting, advertising, notices and consultation on the proposed plan. The initiative included in this task will complement the requirements for consultation</p>		All three Source Protection Areas (SPAs) of the Thames-Sydenham and Region Source Protection Region: Upper Thames River SPA, Lower Thames Valley SPA and St. Clair Region SPA		\$230,000

<p>on the proposed Plan which are included in the other task. In addition to the required consultation on the proposed Source Protection Plan, many of the plan components will also be consulted on. Specific outreach will be undertaken in areas where significant risks are likely.</p> <p>This task will need to be re-evaluated and possibly revised once the Rules and Regulations are in place to ensure that the planned communications initiatives meet the needs of the SPC and the stakeholders in the region as well as satisfy the regulatory requirements.</p> <p>Staff involvement related to communications initiatives are included in the coordinating and supporting projects for the Source Protection Plan (SPP) task. Costs included in this task includes efforts in all 3 SPAs.</p>		
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By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Information management for source protection plan preparation	Upper Thames River Conservation Authority	2010-Feb-01	2012-Aug-20
Comments		Defined Geographic Area		Estimated Cost
<p>While preparing the Source Protection Plan the SPC, staff, working groups and municipalities will require access to Assessment Report products as well as the development of SPP data products. Software licensing and hardware maintenance similar to that included in the task related to the information management for the Assessment Report is included in this task.</p> <p>Staff costs associated with this task are included in the task related to the coordination of the SPP.</p>		Source Protection Region including the Upper Thames River SPA, Lower Thames Valley SPA and St. Clair Region SPA		\$190,000

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Policy development to address drinking water threats (where required and/or permissible in Act/Regs)	Source Protection Committee	2010-Jan-01	2012-Aug-20
Comments		Defined Geographic Area		Estimated Cost
<p>In considering policies to include in the Source Protection Plan the SPC will consider the Clean Water Act and its Regulations, Rules and other provincial guidance. The SPC will also consider the types of policies being implemented</p>		All three Source Protection Areas (SPAs) of the Thames-Sydenham and Region Source Protection Region: Upper Thames River SPA, Lower Thames Valley SPA and St. Clair Region SPA		

<p>in neighbouring regions. Criteria will be developed by the SPC to compare risk management measures and policies to be included in the Source Protection Plan. These criteria will be consistent with the SPC's mission statement and guiding principles including the principal of being "fair and reasonable". In developing these policies, the SPC will have regard for the financial impact on those affected including normal business or standard practices and expectations for existing situations. The policies may also consider the cost of the change, any ongoing or repetitive costs, long term impacts and any impacts on productive capacity or competitive advantage. Both existing and new programs, opportunities, financial instruments, and education and outreach policies and programs will be considered. Where there are water quantity threats to drinking water sources included in the ToR the SPC will need to consider policies to address those threats. More general policies related to water conservation may also be considered by the SPC in developing the policies to be included in the Source Protection Plan.</p> <p>The staff and SPC costs associated with this task are included with the task related to coordinating and supporting projects associated with the Source Protection Plan. This task will require extensive consultation with stakeholder groups which has been included in the task related to undertaking communications initiatives for the Source Protection Plan.</p>		
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By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Policy development to address drinking water threats (where required and/or permissible in Act/Regs)	County of Oxford	2010-Apr-01	2011-Mar-31
Comments		Defined Geographic Area		Estimated Cost
The County of Oxford will work with the SPC and staff of the CA to develop policies to address drinking water threats in vulnerable areas associated with the WHPAs for the County's wells. This task includes staff time to develop policies and consider how they can be incorporated into County of Oxford policies including the Official Plan. The cost shown for this task is approximately half of the cost associated with this task as work will also be required in the Lake Erie SPR.		County of Oxford		\$50,000

By Source Protection	Task	Assigned Lead(s)	Estimated Start	Estimated
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Area			Date	Completion Date
Upper Thames River Source Protection Area	Policy development for monitoring (where required, advisable and/or permissible in Act & Regs)	Source Protection Committee	2009-Apr-01	2012-Aug-20
Comments		Defined Geographic Area		Estimated Cost
<p>The SPC will consider existing monitoring programs of the CAs, municipalities, province and stakeholder groups and develop specific monitoring programs for the Source Protection Plan. These monitoring programs should include programs which will monitor the effectiveness of the plan on issues identified in the Assessment Report as well as emerging issues related to drinking water sources, and Great Lakes Targets. Monitoring programs will be considered to evaluate compliance with the Source Protection Plan including Risk Management Plans and Municipal Planning alignment with the policies included in the Source Protection Plan. Municipal monitoring and reporting programs will be considered to ensure that the municipalities within the region with regard to their implementation of the Plan. The monitoring programs included in the Source Protection Plan will facilitate the requirement in the Clean Water and Regulations to report to the Province on the source protection planning.</p> <p>The staff and SPC costs associated with this task are included with the task related to coordinating and supporting projects associated with the Source Protection Plan.</p>		All three Source Protection Areas (SPAs) of the Thames-Sydenham and Region Source Protection Region: Upper Thames River SPA, Lower Thames Valley SPA and St. Clair Region SPA		

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Policy development for Great Lakes elements (where required/permissible in Act & Regs)	Source Protection Committee	2009-Apr-01	2012-Aug-20
Comments		Defined Geographic Area		Estimated Cost
<p>The Clean Water Act includes the ability of the Minister of the Environment to set Great Lakes targets for watershed. The Source Protection Plan must assist in achieving those Great Lakes targets. Further guidance from the MOE is expected. It is also required that the Source Protection Plan consider Great Lakes Agreements. It is assumed that consultation with other regions draining into each of the Great Lakes that the watershed of the TSR drain into will be required. As well, consultation will be required with Provincial and Federal organizations with responsibilities under the Great Lakes Agreements.</p>		All three Source Protection Areas (SPAs) of the Thames-Sydenham and Region Source Protection Region: Upper Thames River SPA, Lower Thames Valley SPA and St. Clair Region SPA		

<p>Although the scope of the work associated with this task is largely unknown, an allowance for work associated with this task, for both staff and SPC, are included with the task related to coordinating and supporting projects associated with the Source Protection Plan. The estimated cost is included in the tasks in the LTVSPA and SCRSPA to include the additional cost of consultation.</p>		
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By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Establishing timelines for policy implementation	Source Protection Committee	2009-Apr-01	2012-Aug-20
Comments		Defined Geographic Area		Estimated Cost
<p>In developing policies for the Source Protection Plan timelines for the implementation of those policies must be established. In developing these timelines the SPC will consult with the municipalities and other stakeholders. The SPC will apply its guiding principles, including the principal of being fair and reasonable, to establishing those timelines. In establishing the timelines the SPC also needs to meet the requirements of the Act and its Rules and Regulations.</p>		<p>All three Source Protection Areas (SPAs) of the Thames-Sydenham and Region Source Protection Region: Upper Thames River SPA, Lower Thames Valley SPA and St. Clair Region SPA</p>		

By Source Protection Area	Task	Assigned Lead(s)	Estimated Start Date	Estimated Completion Date
Upper Thames River Source Protection Area	Consultation on the overall proposed source protection plan	Source Protection Committee	2012-Jan-01	2012-Jul-31
Comments		Defined Geographic Area		Estimated Cost
<p>It is anticipated that the Source Protection Plan Rules and Regulations will have specific requirements to consult on the proposed Source Protection Plan. It is expected that these requirements will be similar to the requirements for the consultation on the proposed Terms of Reference and the proposed requirements for consultation on the Assessment Report (included in the proposed Regulation and Rules on the Assessment Report which have been posted for comments). As the requirements for this consultation are yet unknown the planned activities included in this task will need to be re-evaluated once the Rules and Regulations are in place.</p> <p>It is anticipated that the SPC will be required to post a draft and publish a</p>		<p>All three Source Protection Areas (SPAs) of the Thames-Sydenham and Region Source Protection Region: Upper Thames River SPA, Lower Thames Valley SPA and St. Clair Region SPA</p>		<p>\$25,000</p>

notice. Advertising costs related to this are included in this task. Although it is expected that a single meeting will be required we have included in this task holding a series of open houses and forums in addition an anticipated requirement to hold a public meeting. Initiatives included on the task related to undertaking communications initiatives related to the Source Protection Plan complement the proposed consultation included in this task.

Staff time related to this task has been allowed for in the task related to coordinating and supporting projects for the Source Protection Plan.

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Summary of Financial Statistics

	Tasks Done by Source Protection Area or Drinking Water System	Estimated Costs for Tasks Under the Assessment Report	Estimated Costs for Tasks Under the Source Protection Plan	Subtotal
	Upper Thames River Source Protection Area	\$10,364,119		\$14,659,119
Municipal Residential Drinking Water Systems				
	Beachville-Loweville Well Supply			
	Birr Well Supply			
	Dorchester Well Supply	\$143,000		\$143,000
	Embro Well Supply			
	Hickson King Subdivision Well Supply			
	Ingersoll Well Supply			
	Innerkip Well Supply			
	Kilworth Heights Subdivision Well Supply			
	Lakeside Well Supply			
	London Water Supply			
	Melrose Well Supply			
	Mitchell Well Supply			
	Mount Brydges Well Supply			
	Mount Elgin Well Supply			
	Mount Elgin Well Supply - New Well	\$17,850		\$17,850
	New Dorchester Planned Well			
	Sebringville Well Supply			
	Shakespeare Well Supply			
	St. Marys Well Supply	\$113,000		\$113,000
	St. Pauls Well Supply			
	Stratford Well Supply			
	Tavistock Well Supply			

	Thamesford WS	\$40,000		\$40,000
	Thorndale Well Supply	\$15,000		\$15,000
	Woodstock Well Supply	\$25,000		\$25,000
	Woodstock Well Supply - New Well	\$25,000		\$25,000
Drinking Water Systems By Municipal Resolution				
Drinking Water Systems By Band Resolutions				
Drinking Water Systems Included By Minister				
Total Estimated Costs		\$9,343,563	\$4,165,000	\$13,508,563

Estimated Costs for Tasks by Fiscal Year

Fiscal Year defined as April 1 to March 31

Drinking Water System Category / Source Protection Area	Tasks	Fiscal Year 04/05	Fiscal Year 05/06	Fiscal Year 06/07	Fiscal Year 07/08	Fiscal Year 08/09	Fiscal Year 09/10	Fiscal Year 10/11	Fiscal Year 11/12	Fiscal Year 12/13
Upper Thames River Source Protection Area										
	Coordinating and supporting projects for the assessment report	\$0	\$634,100	\$663,858	\$1,064,640	\$1,017,500	\$1,000,000	\$0	\$0	
	Undertaking communications initiatives for the assessment report	\$0	\$21,319	\$9,600	\$100,831	\$126,000	\$95,000	\$0	\$0	
	Information management for the assessment report preparation	\$0	\$57,507	\$132,027	\$50,987	\$65,000	\$100,000	\$0	\$0	\$0
	Undertaking a watershed characterization	\$0	\$2,163	\$6,499	\$20,612	\$0	\$0	\$0	\$0	
	Conducting a conceptual water budget	\$0	\$92,323	\$276,052	\$197,798	\$0	\$0	\$0	\$0	
	Conducting a tier 1 water budget analysis and stress assessment	\$0	\$0	\$0	\$156,800	\$254,700	\$0	\$0	\$0	
	Conducting a tier 2 water budget analysis and stress assessment	\$0	\$0	\$0	\$0	\$165,000	\$165,000	\$0	\$0	\$0
	Conducting a tier 3 water budget analysis and water quantity risk assessment	\$0	\$0	\$0	\$0	\$0	\$650,000	\$0	\$0	\$0

Drinking Water System Category / Source Protection Area	Tasks	Fiscal Year 04/05	Fiscal Year 05/06	Fiscal Year 06/07	Fiscal Year 07/08	Fiscal Year 08/09	Fiscal Year 09/10	Fiscal Year 10/11	Fiscal Year 11/12	Fiscal Year 12/13
	Delineating and applying vulnerability scores to HVAs	\$0	\$0	\$0	\$0	\$29,000	\$0	\$0	\$0	\$0
	Identifying issues, inventorying threats and assessing hazards in HVAs	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0	\$0	\$0
	Assessing risks in HVAs	\$0	\$0	\$0	\$0	\$0	\$42,000	\$0	\$0	\$0
	Applying vulnerability scores to SGRAs	\$0	\$0	\$0	\$0	\$15,000	\$0	\$0	\$0	\$0
	Identifying issues, inventorying threats and assessing hazards in SGRAs	\$0	\$0	\$0	\$0	\$25,000	\$25,000	\$0	\$0	\$0
	Assessing risk in SGRAs	\$0	\$0	\$0	\$0	\$0	\$42,000	\$0	\$0	\$0
	Delineating and applying vulnerability scores to WHPAs or IPZs	\$0	\$99,775	\$31,233	\$0	\$47,890	\$95,000	\$0	\$0	\$0
	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	\$0	\$256,785	\$129,155	\$0	\$166,760	\$0	\$0	\$0	\$0
	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs Threats caused by transportation corridors (land, water) shall be identified and considered in risk assessment.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Assess risk in WHPAs or IPZs	\$0	\$0	\$126,277	\$0	\$233,520	\$0	\$0	\$0	\$0

Drinking Water System Category / Source Protection Area	Tasks	Fiscal Year 04/05	Fiscal Year 05/06	Fiscal Year 06/07	Fiscal Year 07/08	Fiscal Year 08/09	Fiscal Year 09/10	Fiscal Year 10/11	Fiscal Year 11/12	Fiscal Year 12/13
	Consultation on the overall proposed assessment report	\$0	\$0	\$0	\$0	\$0	\$15,000	\$0	\$0	\$0
	GUDI - IPZ Studies - Threats Inventories and Risk Assessment	\$0	\$0	\$0	\$0	\$0	\$15,000	\$0	\$0	\$0
	GUDI - IPZ Studies - Vulnerability Assessment, Threats Inventory and Risk Assessment	\$0	\$0	\$0	\$0	\$110,000	\$0	\$0	\$0	\$0
	GUDI IPZ Study - Preliminary Screening	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0
	Peer Review and resulting edits of Vulnerability Assessment work	\$0	\$0	\$0	\$0	\$135,000	\$135,000	\$0	\$0	\$0
	Coordinating and supporting projects for the source protection plan (SPP)	\$0	\$0	\$0	\$0	\$0	\$210,000	\$1,350,000	\$1,350,000	\$760,000
	Undertaking communications initiatives for the source protection plan	\$0	\$0	\$0	\$0	\$0	\$0	\$90,000	\$90,000	\$50,000
	Information management for source protection plan preparation	\$0	\$0	\$0	\$0	\$0	\$20,000	\$60,000	\$60,000	\$50,000
	Policy development to address drinking water threats (where required and/or permissible in Act/Regs)	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	

Drinking Water System Category / Source Protection Area	Tasks	Fiscal Year 04/05	Fiscal Year 05/06	Fiscal Year 06/07	Fiscal Year 07/08	Fiscal Year 08/09	Fiscal Year 09/10	Fiscal Year 10/11	Fiscal Year 11/12	Fiscal Year 12/13
	Policy development for monitoring (where required, advisable and/or permissible in Act & Regs)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Policy development for Great Lakes elements (where required/permissible in Act & Regs)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Establishing timelines for policy implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Consultation on the overall proposed source protection plan	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000	\$15,000
Municipal Residential Drinking Water Systems										
	Delineating and applying vulnerability scores to WHPAs or IPZs	\$0	\$91,000	\$28,167	\$0	\$61,850	\$0	\$0	\$0	\$0
	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	\$0	\$0	\$33,667	\$0	\$38,000	\$10,000	\$0	\$0	\$0
	Assess risk in WHPAs or IPZs	\$0	\$0	\$11,167	\$0	\$10,000	\$3,000	\$0	\$0	\$0
	GUDI IPZ work - IPZ2 delineation and vulnerability scoring	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0
	GUDI-IPZ 2 delineation and vulnerability scoring;	\$0	\$0	\$0	\$0	\$40,000	\$0	\$0	\$0	\$0

	study of need for IPZ 3									
Drinking Water System Category / Source Protection Area	Tasks	Fiscal Year 04/05	Fiscal Year 05/06	Fiscal Year 06/07	Fiscal Year 07/08	Fiscal Year 08/09	Fiscal Year 09/10	Fiscal Year 10/11	Fiscal Year 11/12	Fiscal Year 12/13
	Review of past work, remodeling of WHPA in overburden wells and assigning vulnerability scores	\$0	\$0	\$0	\$0	\$12,000	\$0	\$0	\$0	\$0
	Update existing WHPA to account for system expansion and mandatory connection	\$0	\$0	\$0	\$0	\$15,000	\$0	\$0	\$0	\$0
Drinking Water Systems By Municipal Resolution										
Drinking Water Systems by Band Resolution										
Drinking Water Systems Included by Minister										
Fiscal Year Total		\$0	\$1,254,973	\$1,447,702	\$1,591,668	\$2,637,220	\$2,642,000	\$1,550,000	\$1,510,000	\$875,000

Process Checklist

Regulatory Process	Completion Date	Done By
Give a copy of the comments on proposed terms of reference to the source protection committee.	2008-Oct-03	SPA Authority
Give copy of draft proposed ToR to groups created pursuant to Great Lakes Water Quality Agreement & involved in developing/implementing RAPs & LaMPs.	2008-Aug-15	SPC Committee
Make provisions to consider Great Lakes Agreements.	2008-Aug-15	SPC Committee
Make the draft proposed terms of reference available at other locations.	2008-Aug-18	SPC Committee
Make the proposed terms of reference available at other locations.	2008-Oct-17	SPC Committee
Municipal council resolutions have been passed agreeing upon work.	2008-Sep-23	SPC Committee
Notice for consultation on draft proposed ToR includes information on public meeting scheduled at least 21 days after newspaper notice is published.	2008-Aug-15	SPC Committee
Notice for consultation on draft proposed ToR includes requests for comments submitted within 35 days of notice published in the newspaper.	2008-Aug-15	SPC Committee
Notify band Chiefs on the commencement of the terms of reference.	2008-Feb-05	SPC Committee
Notify municipal clerks on the commencement of the terms of reference.	2008-Jan-31	SPC Committee
Post draft proposed terms of reference on Internet.	2008-Aug-15	SPC Committee
Post proposed terms of reference on the Internet for 30 days.	2008-Oct-17	SPC Committee
Provide a copy of draft proposed terms of reference to the clerks of municipalities located in the source protection area.	2008-Aug-15	SPC Committee
Provide a copy of draft to the chiefs of bands whose reserves are located in the source protection area.	2008-Aug-15	SPC Committee
Provide a copy of proposed terms of reference to the chiefs of bands whose reserves are located in the source protection area.	2008-Oct-17	SPC Committee
Provide a copy of proposed terms of reference to the clerks of municipalities located in the source protection area.	2008-Oct-17	SPC Committee
Provide a copy of proposed terms of reference to the source protection authority.	2008-Oct-17	SPC Committee
Provide any unresolved comments from municipalities and bands to the Minister as part of the approval package for the proposed terms of reference.	2008-Dec-17	SPA Authority
Provide any unresolved comments from municipalities and bands to the source protection authority on the draft proposed terms of reference.	2008-Oct-17	SPC Committee
Provide copy of draft proposed ToR to chairs of SPCs who have been listed in table that describes matters that affect other source protection areas.	2008-Aug-15	SPC Committee
Publish newspaper notice to publicly view draft proposed ToR on Internet and at other locations (as determined by the source protection committee).	2008-Aug-15	SPC Committee
Receive comments from the 30 day Internet posting from the public, municipalities, bands, and other stakeholders.	2008-Nov-17	SPA Authority

Appendix: Full Task Descriptions

Subject Area	Task Name	Full Task Description
Assessment Report Preparation	Coordinating and supporting projects for the assessment report	Undertaking administrative support, staffing, management support, and training necessary to provide project coordination for the assessment report components and direct support to the source protection committee.
Assessment Report Preparation	Undertaking communications initiatives for the assessment report	Local area engagement, outreach and creation of communications products that support the assessment report process.
Assessment Report Preparation	Information management for the assessment report preparation	Conducting overall data management, data sharing agreements, standards, mapping, software and maintenance.
Assessment Report Preparation	Undertaking a watershed characterization	Identifying and describing watersheds in the source protection area. May include water quality analysis and peer review for water quality analysis. Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.
Assessment Report Preparation	Conducting a conceptual water budget	Describing the overall flow system dynamics for each watershed in the source protection area taking into consideration surface water and groundwater features, land cover (e.g. proportion of urban vs. rural uses), human-made structures (e.g. dams, channel diversions, water crossings), and water takings. Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.
Assessment Report Preparation	Conducting a tier 1 water budget analysis and stress assessment	Conducting a tier 1 water budget analysis, stress assessment, and delineation of significant groundwater recharge areas. May also include the identification of water quantity concerns and an analysis of uncertainty. Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.
Assessment Report Preparation	Conducting a tier 2 water budget analysis and stress assessment	If determined necessary from a tier 1 water budget analysis and stress assessment, conducting a tier 2 water budget analysis and stress assessment, and refining the delineation of significant groundwater recharge areas. May also include the identification of water quantity concerns and an analysis of uncertainty. Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.
Assessment Report Preparation	Conducting a tier 3 water budget analysis and water quantity risk assessment	If determined necessary from a tier 2 water budget analysis and stress assessment, conducting a tier 3 water budget analysis and water quantity risk assessment. May include identifying significant, moderate and low water quantity threats. May also include consultation with property owners/residents/stakeholders impacted by a significant drinking water threat scoring and an analysis of uncertainty. Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.
Assessment Report Preparation	Delineating and applying vulnerability scores to HVAs	Delineating the location and extent of highly vulnerable aquifers in the source protection area and applying vulnerability scores. An uncertainty analysis may be included in this task. Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.

Assessment Report Preparation	Identifying issues, inventorying threats and assessing hazards in HVAs	Listing and describing drinking water quality issues, inventorying threats and assessing hazards (including uncertainty analysis) in the highly vulnerable aquifers. Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.
Assessment Report Preparation	Assessing risks in HVAs	Identifying any significant, moderate, low, and negligible drinking water threats, undertaking an issues evaluation, and analysing uncertainty in highly vulnerable aquifers. Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.
Assessment Report Preparation	Applying vulnerability scores to SGRAs	Applying vulnerability scores to significant groundwater recharge areas in the source protection area (delineated in the water budget process). Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.
Assessment Report Preparation	Identifying issues, inventorying threats and assessing hazards in SGRAs	Listing and describing drinking water quality issues, inventorying threats and assessing hazards (including uncertainty analysis) in the significant groundwater recharge areas. Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.
Assessment Report Preparation	Assessing risk in SGRAs	Identifying any significant, moderate, low, and negligible drinking water threats, undertaking an issues evaluation, and analysing uncertainty in significant groundwater recharge areas. Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.
Assessment Report Preparation	Delineating and applying vulnerability scores to WHPAs or IPZs	Delineating the location and extent of the vulnerable area around a drinking water system (wellhead protection areas for drinking water systems using groundwater or intake protection zones for drinking water systems withdrawing from surface water) in the source protection area and applying a vulnerability score. Uncertainty analysis and peer review may be required. In addition, consultation with property owners/residents/stakeholders affected by the delineation and scoring for these two vulnerable areas may be required. Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.
Assessment Report Preparation	Identifying issues, inventorying threats and assessing hazards in WHPAs or IPZs	Listing and describing drinking water quality issues, inventorying threats and assessing hazards (including uncertainty analysis) in wellhead protection areas and/or intake protection zones. Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.
Assessment Report Preparation	Assess risk in WHPAs or IPZs	Identifying any significant, moderate, low, and negligible drinking water threats, undertaking an issues evaluation, and analysing uncertainty in wellhead protection areas or intake protection zones. Consultation may be required with stakeholders impacted by significant drinking water threats scoring. Consultation with adjacent source protection areas or regions may also be required for shared Great Lakes drinking water issues. Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.
Assessment Report Preparation	Consultation on the overall proposed assessment report	Meeting the legislative and regulatory requirements on the consultation and submission process of the proposed assessment report. Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.
Assessment Report		If required, add other tasks to complete the assessment report. Describe in detail.

Preparation		
Source Protection Plan Preparation	Coordinating and supporting projects for the source protection plan (SPP)	Undertaking administrative support, staffing, management support, and training necessary to provide project coordination for the source protection plan components and direct support to the source protection committee.
Source Protection Plan Preparation	Undertaking communications initiatives for the source protection plan	Local area engagement, outreach and creation of communications products that support the source protection plan process.
Source Protection Plan Preparation	Information management for source protection plan preparation	Conducting overall data management, data sharing agreements, standards, mapping, software and maintenance.
Source Protection Plan Preparation	Policy development to address drinking water threats (where required and/or permissible in Act/Regs)	Policy development to address drinking water threats (where required and/or permissible in the Act and source protection plan regulation). Detailed requirements and guidance will be provided in the Source Protection Plan regulation and guidance document when they are developed.
Source Protection Plan Preparation	Policy development for monitoring (where required, advisable and/or permissible in Act & Regs)	Policy development for monitoring activities (where required, advisable and/or permissible in the Act and source protection plan regulation), including determining who is responsible for implementing these policies. Detailed requirements and guidance will be provided in the Source Protection Plan regulation and guidance document when they are developed.
Source Protection Plan Preparation	Policy development for Great Lakes elements (where required/permissible in Act & Regs)	Policy development for Great Lakes associated elements (where directed by the Minister and required or permissible in the Act and source protection plan regulation), including monitoring policies to assist in implementing and determining the effectiveness of achieving Great Lake target(s) policies, determining who is responsible for implementing those policies, and determining the need to identify any of these policies as "designated Great Lakes policies". Detailed requirements and guidance will be provided in the Source Protection Plan regulation and guidance document when they are developed.
Source Protection Plan Preparation	Establishing timelines for policy implementation	Establishing timelines for policy implementation after all policies for the SPP are developed, giving consideration to the policies developed, key players affected, capacity for implementation, the assessed risks, and natural, social, and economic considerations, including local community interests/needs. Detailed requirements and guidance will be provided in the Source Protection Plan regulation and guidance document when they are developed.
Source Protection Plan Preparation	Consultation on the overall proposed source protection plan	Consultation and submission process of the overall proposed source protection plan. Details on how to conduct the consultations on the overall proposed source protection plan will be provided in the Source Protection Plan regulation and guidance document when they are developed.
Source Protection Plan Preparation		If required, add other tasks to complete the source protection plan. Describe in detail.